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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,806	08/25/2003	John P. Simons	20140-00263-US1	1310
30678	7590 10/07/2005		EXAMINER	
CONNOLLY BOVE LODGE & HUTZ LLP			DUDA, KATHLEEN	
SUITE 800 1990 M STRE	EET NW		ART UNIT	PAPER NUMBER
WASHINGTO	ON, DC 20036-3425	1756		
	•		DATE MAILED: 10/07/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	7		12		
	Application N	lo. Applicant(s)			
	10/646,806	SIMONS ET AL			
Office Action Summary	Examiner	Art Unit			
	Kathleen Dud	- 1			
The MAILING DATE of this communication a Period for Reply	appears on the co	ver sheet with the correspondence	address		
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by star Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS 1.136(a). In no event, h od will apply and will exp tute, cause the application	COMMUNICATION. Nowever, may a reply be timely filed Dire SIX (6) MONTHS from the mailing date of this on to become ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 02	September 2005	5.			
_					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice unde	er Ex parte Quayle	e, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) 20-25 is/are pending in the applica	tion.				
4a) Of the above claim(s) is/are withd		leration.			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>20-25</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requ	irement.			
Application Papers					
9) ☐ The specification is objected to by the Exami	iner.				
10) The drawing(s) filed on is/are: a) a		objected to by the Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the corr	ection is required if	the drawing(s) is objected to. See 37	CFR 1.121(d).		
11) The oath or declaration is objected to by the	Examiner. Note t	he attached Office Action or form	PTO-152.		
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for forei a) ☐ All b) ☐ Some * c) ☐ None of:	gn priority under	35 U.S.C. § 119(a)-(d) or (f).			
 Certified copies of the priority docume 	ents have been re	ceived.			
2. Certified copies of the priority docume	ents have been re	ceived in Application No			
Copies of the certified copies of the present			al Stage		
application from the International Bure		- • •			
* See the attached detailed Office action for a li	ist of the certified	copies not received.			
		•			
Attachment/c)					
Attachment(s) 1) X Notice of References Cited (PTO-892)	A I	Interview Summer: /DTO 442)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) [Interview Summary (PTO-413) Paper No(s)/Mail Date			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	5) [6) [Notice of Informal Patent Application (P	TO-152)		
Potential Trade and Office					

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DETAILED ACTION

1. Claims 20-25 are pending in this application.

Claim Rejections - 35 USC § 112

2. Claims 20-25 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The independent claim has been amended to recite that the feature size is "less than about 0.2 microns". Applicant has indicated that page 1 of the specification provides support for this amendment. Page 1 of the specification recites "(t)here is a goal in the industry to reduce the feature size below 0.20 microns". There is no teaching in the specification that the present invention achieves this goal.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 20-25 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Yoon (US 2002/0155379).

The claims recite a composite structure with a substrate which is a semiconductor substrate and a resist image with a feature size less than about 0.2 microns. Youn teaches a chemically amplified resist which can be used to make semiconductor devices (paragraph 004). Paragraph 0107 teaches that the resist pattern is 0.2-0.3 microns.

Yoon does not teach all of the process claims recited but the claims are product-by-process claims which appear to be taught by Yoon.

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6. Claims 20-25 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Park (US Patent 6,369,143) or Nakano (US Patent 6,287,746).

The claims recite a composite structure with a substrate which is a semiconductor substrate and a resist image with a feature size less than about 0.2 microns.

Park teaches a resist composition which can be used in the manufacture of a semiconductor device (column 1, lines 19-33). It is taught that the composition produces patterns as small as 0.2 microns.

Nakano teaches a chemically amplified resist which can be used in making semiconductor devices (column 1, lines 15-20). It is taught in the 22nd example that a 0.2 micron pattern can be obtained.

Park and Nakano do not teach all of the process claims recited but the claims are product-by-process claims which appear to be taught by Yoon.

Conclusion

7. Any inquiry concerning this communication should be directed to Examiner K. Duda at (571) 272-1383. Official FAX communications should be sent to (571) 273-8300.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff, can be reached at 571-272-1385.

Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kathleen Duda Primary Examiner Art Unit 1756